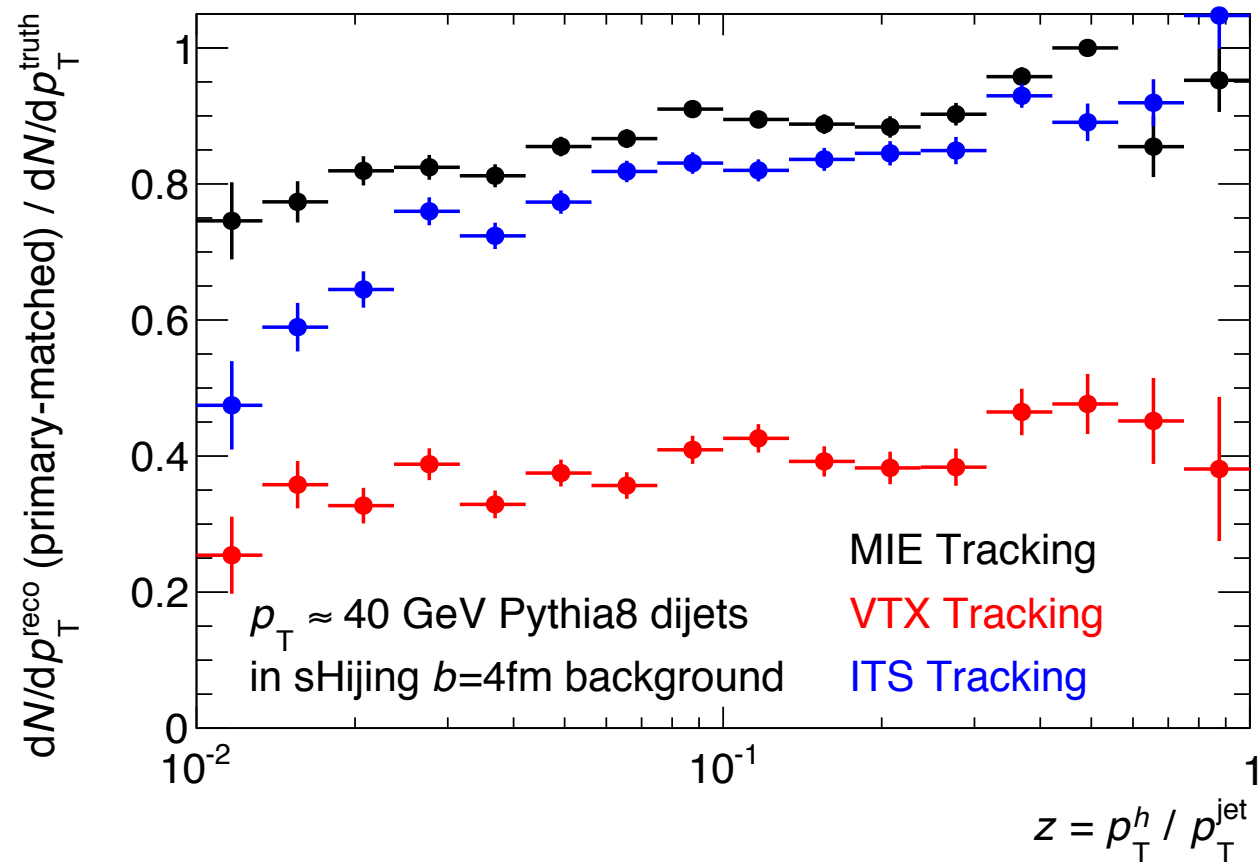


Jet Structure TG - Tracking Review Plans

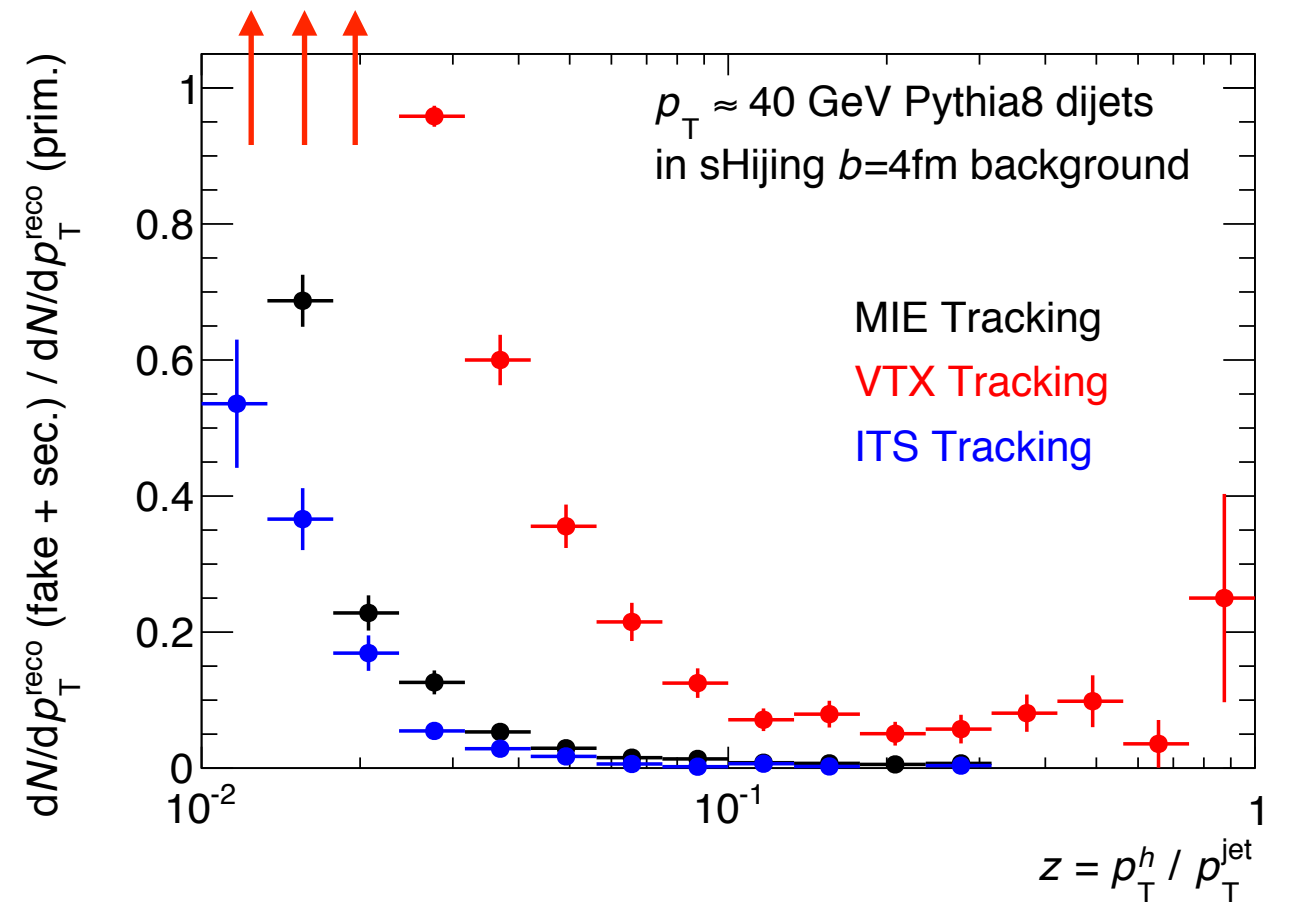
- Jet Structure group plans to contribute to simulation studies for tracking review
 - ➔ most appropriate topic: tracking performance in the context of fragmentation functions (high- p_T in jets), but also E -flow & charged particle spectra (all p_T)
 - ➔ need to coordinate with Upsilon TG since general tracking performance typically discussed there
 - ➔ plan to continue our “standardized MC samples & detector configurations” model for this effort
- Will discuss in more detail and begin to organize work
 - ➔ Bi-weekly meetings Tues. 11am, starting next week (28 June) ←

from studies in May 2016 with then-existing tracking options

- Comparing tracking configurations: **MIE** ideal seven-layer silicon, reused **VTX** pixels + ganged strips, seven-layer ALICE **ITS**
- Full G4 tracking simulation, embedded in $b=4\text{fm}$ Hijing background
- Fragmentation functions for $p_T \sim 40\text{ GeV}$ dijets



truth-matched $dN/dp_T^{\text{reco}} / dN/dp_T^{\text{truth}}$



fake+secondary $dN/dp_T^{\text{reco}} / \text{truth-matched } dN/dp_T^{\text{reco}}$

- How big are corrections for eff. and p_T resolution together?
- What is relative fake rate inside jet cone?